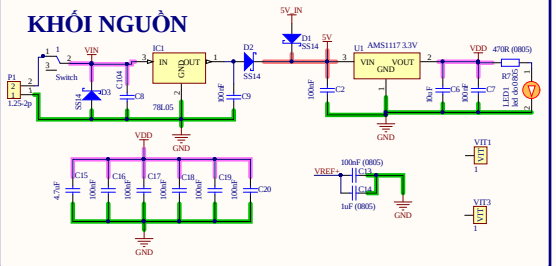
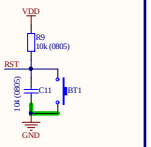
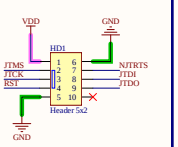
KHỐI NGUỒN



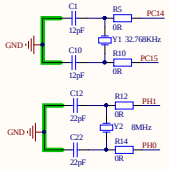
KHỐI RESET



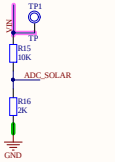
KHỐI DEBUG



KHỐI DAO ĐỘNG

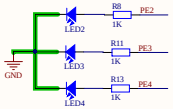


PIN LEVEL

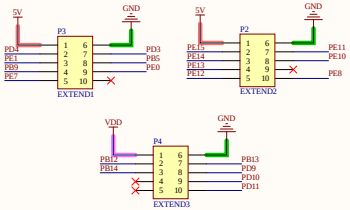


ADC_SODAR=VIN*(R15=R16)/R16

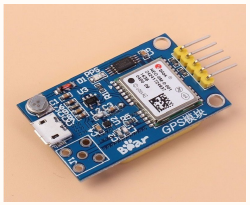
USER LED

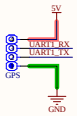


EXTEND

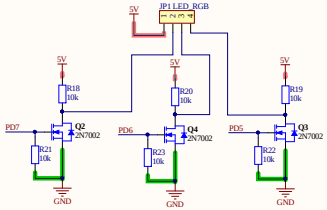


GPS NEO 8M

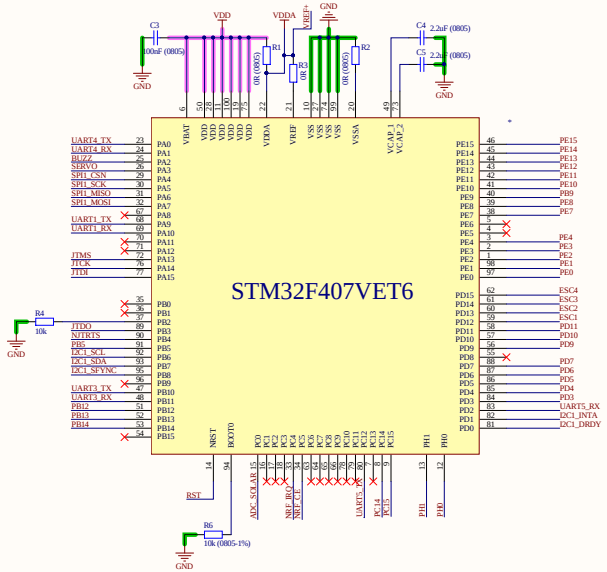




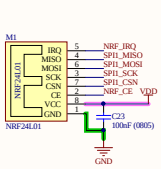
RGB LED



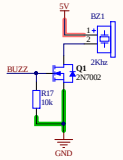
STM32F407VET6



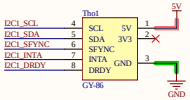
NRF24L01



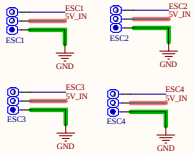
BUZZER



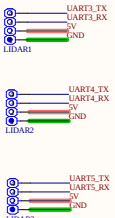
GY-86



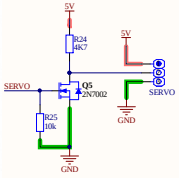
ESC INPUT

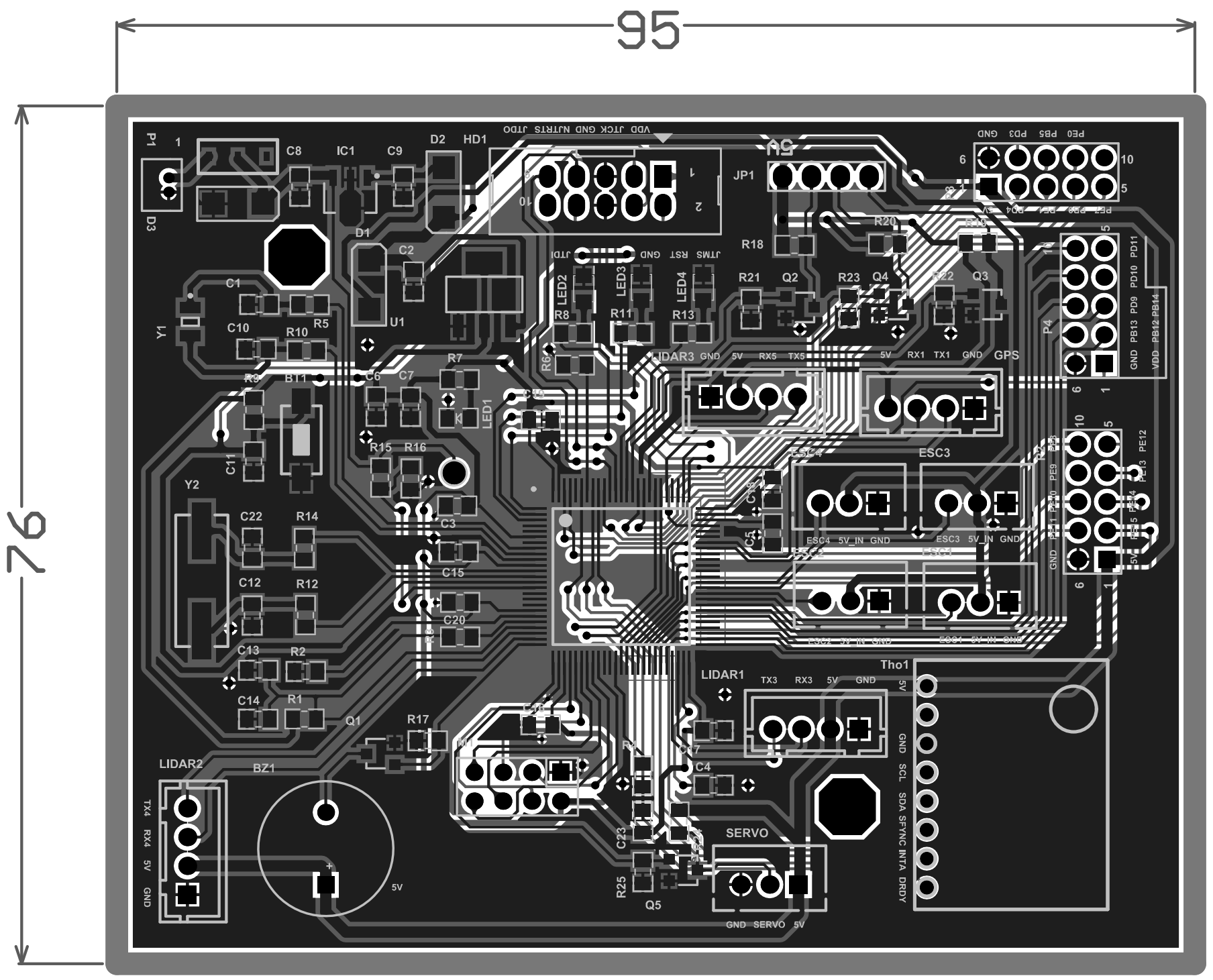


TF MINI LIDAR



SERVO




95
76
P1
D3
C8
IC1
C9
D2
HD1
JP1
D1
C2
U1
C1
V1
C10
R10
R5
BT1
C6
C7
R7
LED1
R15
R16
C11
Y2
C22
R14
C12
R12
C13
R2
C14
R1
Q1
R17
C3
C15
C20
LED2
LED3
LED4
R8
R11
R13
R18
R20
R21
Q2
R23
Q4
R22
Q3
R6
LIDAR3
GND 5V RX5 TX5
5V RX1 TX1 GND
GPS
P4
ESC4
ESC3
ESC4 5V_IN GND
ESC3 5V_IN GND
ESC2
ESC1
ESC2 5V_IN GND
ESC1 5V_IN GND
LIDAR1
TX3 RX3 5V GND
Tho1
GND SCL SDA SFYNC INTA DRDY
LIDAR2
TX4 RX4 5V GND
BZ1
5V
C23
R25
Q5
SERVO
GND SERVO 5V

Comment	Description	Designator	Footprint	LibRef	Quantity
STM32F407			STM32F407Vet6	STM32F407	1
Switch		1	SW_MSS	Switch	1
Nút Nhấn 2 Chân 3x6x2.5MM SMD	Dán	BT1	Nut Nhan 2 Chan SMD_N	Nut Nhan 2 Chan SMD	1
2Khz	Cắm	BZ1	coi xung	Coi xung 2Khz	1
12pF	Dán	C1, C10	tu 0805	Tu 0805 10pF 50V 10%	2
100nF	Dán	C2, C7, C9, C16, C17, C18, C19, C20	tu 0805	Tu 0805 104 50V 10%	8
100nF (0805)	Dán	C3, C13, C23	tu 0805	Tu 0805 220nF 50V 10%	3
2.2uF (0805)	Dán	C4, C5	tu 0805	Tu 0805 220nF 50V 10%	2
10uF	Dán	C6	tu 0805	Tu 0805 104 50V 10%	1
C104	Dán	C8	tu 0805	Tu 0805 104 50V 10%	1
104 (0805)	Dán	C11	tu 0805	Tu 0805 104 50V 10%	1
22pF	Dán	C12, C22	tu 0805	Tu 0805 10pF 50V 10%	2
1uF (0805)	Dán	C14	tu 0805	Tu 0805 220nF 50V 10%	1
4.7uF	Dán	C15	tu 0805	Tu 0805 104 50V 10%	1
SS14	Dán	D1, D2, D3	DIODE SMD	Diode SS14 (1N5819)	3
IO	Header 1x3	ESC1, ESC2, ESC3, ESC4, SERVO	CON.HDR1X3	CON.HDR1x3	5
IO	Header 1x4	GPS, LIDAR1, LIDAR2, LIDAR3	CON.HDR1X4L	CON.HDR1x4	4
Header 5x2	Header 5x2	HD1	Hed2X5	HED5x2	1
78L05	Dán	IC1	SOT89-150P410X160-3N	78L05	1
LED_RGB	Cắm	JP1	JUMP DON DUC 2.54_4P	Jump Don Duc 2.54_4P	1
led do 0805	Dán	LED1	led 0805	Led 0805 Do	1
LED SMD		LED2	SM-LED-0805-Yellow	LED-SMD-0805	1
LED SMD		LED3	SM-LED-0805-Green	LED-SMD-0805	1
LED SMD		LED4	SM-LED-0805-Blue	LED-SMD-0805	1
NRF24L01		M1	NRF24L01	NRF24L01	1
1.25-2p	Cắm	P1	Header Duc Thang 2p 1.25	Header 1.25-2p	1
EXTEND2	Header, 5-Pin, Dual row	P2	HDR2X5_CEN	Header 5X2A	1
EXTEND1	Header, 5-Pin, Dual row	P3	HDR2X5_CEN	Header 5X2A	1
EXTEND3	Header, 5-Pin, Dual row	P4	HDR2X5_CEN	Header 5X2A	1
2N7002	N-channel Enhancement Mode Field-effect Transistor	Q1, Q2, Q3, Q4, Q5	SOT23-123	2N7002	5
0R (0805)	Dán	R1, R2	tro 0805	Tro 0805 5% 470R	2
0R	Dán	R3, R5, R10, R12, R14	tro 0805	Tro 0805 5% 470R	5
10k	Dán	R4, R15, R17, R18, R19, R20, R21, R22, R23, R25	tro 0805	Tro 0805 1% 10k, Tro 0805 5% 10k	10
10k (0805-1%)	Dán	R6	tro 0805	Tro 0805 1% 10k	1
470R (0805)	Dán	R7	tro 0805	Tro 0805 5% 470R	1
1K	Dán	R8, R11, R13	tro 0805	Tro 0805 5% 470R	3
10k (0805)	Dán	R9	tro 0805	Tro 0805 5% 10k	1
2K	Dán	R16	tro 0805	Tro 0805 5% 10k	1
4K7	Dán	R24	tro 0805	Tro 0805 1% 10k	1
GY-86		Tho1	GY-86	GY-86	1
TP	Test Point	TP1	TP1	TP1	1
AMS1117 3.3V	Dán	U1	SOT223	AMS1117 3.3V	1
1	Oc Vit	VIT1, VIT3	VIT	VIT	2
32.768KHz	Dán	Y1	XT2-32.768KHz-2_V	Thach anh 8MHz 49S SMD	1
8MHz	Dán	Y2	thach anh 49s smd	Thach anh 8MHz 49S SMD	1